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Commonly used definitions for VMS modules written in BLISS

Version:

'V04-000'

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## ABSTRACT:

This is the common require file for any module written in BLISS

## **ENVIRONMENT:**

VAX/VMS operating system.

AUTHOR: Tim Halvorsen, feb 1980

MODIFIED BY:

!----

V03-001 MHB0127 Mark Bramhall Added the MOVE\_QUAD macro.

5-Apr-1984

```
16-SEP-1984 16:51:55.96 Page 2
                                                                                                                                                                                  AU
UTILDEF . REQ: 1
         Equated symbols
LITERAL
                    = 1.
     true
false
                                                    boolean true
boolean false
                   = 0.
     ok
                                                     success return code
     error
                                                     error return code
                                                   ! quadword allocation definition
     quad
         Define structure type for VMS structures
STRUCTURE
    bblock [o, p, s, e; n] =
                    (bblock+o)<p.s.e>;
MACRO
    move quad (src, dst) = ! Move a quadword BEGIN
          (dst)+0 = .(src)<0, 32>;
(dst)+4 = .(src)<32,32>;
          END%:
MACRO
    descriptor [] = ! Generate a static string descriptor UPLIT (%CHARCOUNT (%STRING (%REMAINING)), UPLIT BYTE (%STRING (%REMAINING))) %;
MACRO
    own_desciptor [] = ! Generate the actual static string descriptor
BBLOCK [8] INITIAL(%CHARCOUNT(%STRING(%REMAINING)),
                              UPLIT BYTE (%STRING(%REMAINING))) %;
MACRO
    return_if_error(command) = BEGIN
          LOCAL
              status;
          status = command;
IF_NOT .status
              RETURN .status;
         END%:
MACRO
    signal_if_error(command) = BEGIN
          LOCAL
               status:
          status = command:
```

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```
16-SEP-1984 16:51:55.96 Page 3
UTILDEF.REQ:1
              IF NOT .status
             THEN
                   BEGIN
                    SIGNAL (.status);
                    RETURN . status:
                    END:
             END%:
   Macro to implement a function (f) of the message severity level that maps the various severity levels such that arithmetic comparisions of the mapped values ( f(severity) ) yield a order of precedence that is intuivitvely acceptable:
                          ERROR NAME
                                                   OLDVAL
                                                                     NEWVAL
                          F(SUCCESS)
                          F(INFORMATIONAL)
                                                              -->
                          F (WARNING)
                                                              -->
                          F(ERROR)
                                                              -->
                          F(SEVERE_ERROR)
MACRO
      severity level (status) = BEGIN
             LOCAL code: BBLOCK [LONG]:
             code = status;
             .code [sts$v_severity] - (4 * .code [sts$v_success]) + 3
             END%:
MACRO
     clisexternal(prefix) =

%IF %DECLARED(%QUOTE %QUOTE clisprefix)

%THEN UNDECLARE %QUOTE %QUOTE clisprefix; %FI

MACRO clisprefix = prefix %QUOTE %;

EXTERNAL LITERAL
                   clisexternal_loop(%REMAINING)%,
      cliSexternal_loop[name] =
    XNAME(cliSprefix,name): UNSIGNED(8)%;
MACRO
      Sexternal_literal(symbol) =

BEGIN

XIF NOT XDECLARED(symbol) XTHEN EXTERNAL LITERAL symbol

XIF XLENGTH GTR 1 XTHEN : XREMAINING XFI; XFI
             symbol ENDX;
      $fab_dev(dev_bit) = ! Access FAB$L_DEV |
$BYTEOFFSET(fab$l_dev),
$BITPOSITION(%NAME('dev$v_',dev_bit)),1,0%;
                                                    ! Access FAB$L_DEV bits of FAB block
```

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